

ABSTRACT OF THE DISCLOSURE

A prosthetic foot device includes an elongated continuous cantilever-spring, extending from an attachment section coupleable to a stump of an amputee to a toe section at a toe location of a natural foot. The cantilever-spring is elastically deformable under a load to store energy as the amputee steps onto the cantilever-spring and to release energy as the amputee steps off of the cantilever-spring. A cam is pivotally coupled to the cantilever-spring at a pivot. A resistance arm is coupleable to the stump of the amputee, and extends to a displaceable section engaging the cam. A lever arm is attached to the cantilever-spring and engages the cam. The cam operatively inter-couples the cantilever-spring and the resistance arm to elastically deform the resistance arm along with the cantilever-spring to collectively store more energy than the cantilever-spring alone.